NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKL	.1313	VOLUN	ITARY ¹
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APPLICATION CHECKLIST FOR BSC	MANDATORY	Tier 1	Tier 2
Project meets all of the requirements of Divisions 5.1 through 5.5.	X		
Minister of Marine State (Special Control of Special Control of Specia			
A5.103.1 Community connectivity. Locate project on a previously developed site within a 1/2- mile radius of at least ten basic services, listed in Section A5.103.1.			
A5.103.2 Brownfield or greyfield site redevelopment or infill area development. Select for development a brownfield in accordance with Section A5.103.2.1 or on a greyfield or infill site as defined in Section A5.106.3.2.			
A5.103.2.1 Brownfield redevelopment. Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.			
Side last a fillion and a second			
A5.104.1.1 Local zoning requirement in place. Exceed the zoning's open space requirement for vegetated open space on the site by 25 percent.			
A5.104.1.2 No local zoning requirement in place. Provide vegetated open space area adjacent to the building equal to the building footprint area.			
A5.104.1.3 No open space required in zoning ordinance. Provide vegetated open space equal to 20 percent of the total project site area.			
Newscript and the said things in the said of the said			
A5.105.1.1 Existing building structure. Maintain at least 75 percent of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing) based on surface area.			
Exceptions:	1		
Window assemblies and nonstructural roofing material. Hazardous materials that are remediated as a part of the project.			
3. A project with an addition of more than two times the square footage of the existing building. A5.105.1.2 Existing nonstructural elements. Reuse existing interior nonstructural elements (interior walls,			_
doors, floor coverings and ceiling systems) in at least 50 percent of the area of the completed building (including additions). Exception: A project with an addition of more than two times the square footage of the existing building.			
A5.105.1.3 Salvage. Salvage additional items in good condition such as light fixtures, plumbing fixtures and doors for reuse on this project in an onsite storage area or for salvage in dedicated collection bins. Document			
the weight or number of the items salvaged. See Items 1 and 2,			
PRODUCTION OF COMESSAGE CO. I. VO. CO. V. CO			<u> </u>
5.106.1 Storm water pollution prevention. Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities through local	X		
ordinance in Section 5.106.1.1	or 🗵		
Best management practices (BMP) in Section 5.106.1.2,	_	_	_
A5.106.2 Storm water design. Design storm water runoff rate and quantity in conformance with Section A5,106.2.1 and storm water runoff quality by Section A5,106.2.2 or by local requirements, whichever are stricter.			
A5.106.2.1 Storm water runoff rate and quantity. Implement a storm water management plan resulting in no net increase in rate and quantity of storm water runoff from existing to developed conditions.			
Exception: If the site is already greater than 50 percent impervious, implement a storm water management plan resulting in a 25-percent decrease in rate and quantity.	_	-	_
A5.106.2.2 Storm water runoff quality. Use post construction treatment control best management practices (BMPs) to mitigate (infiltrate, filter or treat) storm water runoff from the 85th percentile 24-hour runoff event (for volume-based BMPs) or the runoff produced by a rain event equal to two times the 85th percentile hourly intensity (for flow-based BMPs).			
A5.106.3 Low impact development (LID), Reduce peak runoff in compliance with Section 5,106.1. Employ at least two of the following methods or other best management practices to allow rainwater to soak into the ground, evaporate into the air or collect in storage receptacles for irrigation or other beneficial uses. LID strategies include, but are not limited to those listed in Section A5.106.3.			
A5.106.3.1 Implementation. If applicable, coordinate LID projects with the local Regional Water Quality Control Board, which may issue a permit or otherwise require LID.			
A5.106.3.2 Greyfield or infill site. Manage 40 percent of the average annual rainfall on the site's impervious surfaces through infiltration, reuse or evaportranspiration.			П

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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2	
5.106.4 Bicycle parking. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2. 5.106.4.1 Bicycle parking, [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the	⊠	1611	1101 4	
applicable local ordinance, whichever is stricter. 5.106.4.1.1 Short-term bicycle parking. If the new project or addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily	×			11
visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack. Exception: Additions or alterations which add nine or fewer visitor vehicular parking spaces. 5.106.4.1.2 Long-term bicycle parking. For buildings with 10 or more tenant-occupants or for additions or alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of tenant-occupied motorized vehicle parking spaces being added, with a minimum of one space. Acceptable	X			
parking facilities shall be convenient from the street and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers. Note: Additional information on recommended bicycle accommodations may be obtained from	:			
Sacramento Area Bicycle Advocates. A5.106.4.3 Changing rooms. For buildings with over 10 tenant-occupants, provide changing/shower facilities in accordance with Table A5.106.4.3 or document arrangements with nearby changing/shower facilities.	⊠			
A5.106.5.1 Designated parking for clean air vehicles. Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in: A5.106.5.1.1 Tier 1 10% of total spaces per Table A5.106.5.1.1. A5.106.5.1.2 Tier 2 12% of total spaces per Table A5.106.5.1.2. A5.106.5.1.3 Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked				11
vehicle: CLEAN AIR/ VANPOOL/EV A5.106.5.1.4 Vehicle designations. Building managers may consult with local community Transit Management Associations (TMAs) for methods of designating qualifying vehicles, such as issuing parking				
stickers. See Notes 1 and 2 5.106.5.2 Designated parking. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2.	Œ			
5.106.5.2.1 Parking stall marking, Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR/	⊠			
VANPOOL/EV Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.				
5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). 5.106.5.3.1 Single charging space requirements. [N] 5.106.5.3.2 Multiple charging spaces requirements. [N] 5.106.5.3.3 EV charging space calculation. [N] per Table 5.106.5.3.3 (approx. 6%)	X			1
5.106.5.3.4 [N] Identification. 5.106.5.3.5 [N] EV spaces count as designated parking. A5.106.5.3.1 Tier 1, per Table A5.106.5.3.1 (approx. 8%) A5.106.5.3.2 Tier 2, per Table A5.106.5.3.2 (approx. 10%)			<u> </u>	
A5.106.5.3.3 Identification. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "BV CAPABLE." The raceway termination location shall be permanently and visi- bly marked as "EV CAPABLE." A5.106.5.3.4 Future charging spaces qualify as designated parking as described in Section A5.106.5.1			0	
Designated parking for clean air vehicles. See Notes 1,2 and 3. A5.106.6 Parking capacity. Design parking capacity to meet but not exceed minimum local zoning		<u>.</u>	<u></u>	
requirements. A5.106.6.1 Reduce parking capacity. With the approval of the enforcement authority, employ strategies to reduce on-site parking area by			_	
Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of on street parking or compact spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the spaces, illustrated on the site plan or Use of our spaces, illustrated on the site plan or Use of our spaces, illustrated on the spaces, illustrated on				

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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
A5.106.7 Exterior walls. Meet requirements in the current edition of the California Energy Code and comply	MANDATORT) let (rier 2
with either Section A5.106.7.1 or A5.106.7.2 for wall surfaces:			
A5.106.7.1 Fenestration. Provide vegetative or man-made shading devices for all fenestration on east, south- and west-facing walls.			
A5.106.7.1.1 East and west walls. Shading devices shall have 30% coverage to a height of 20 feet or to			
the top of the exterior wall, whichever is less.		_	
A5.106.7.1.2 South walls. Shading devices shall have 60% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less,			
A5.106.7.2 Opaque wall areas. Use wall surfacing with SRI 25 (aged), for 75% of opaque wall areas.			
See Exception and Note.	leest .		
5.106.8 Light pollution reduction. [N] Outdoor lighting systems shall be designed and installed to comply with the following:	☒		
1, The minimum requirements in the California Energy Code for Lighting Zones 1-4 as defined in Chapter			
10 of the California Administrative Code; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and			
3. Allowable BUG ratings not exceeding those shown in Table 5,106,8, or	or		
Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.	×		
Exceptions: [N]			
 Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code Emergency lighting 			
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.			
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8			
Alternate materials, designs and methods of construction Note: [N] See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting			
requirements for parking facilities and walkways,			
5.106.10 Grading and paving. Construction plans shall indicate how site grading or a drainage system will			
manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include those shown in Items 1-5. See exception for additions or alterations.	X		
A5.106.11 Heat island effect, Reduce nonroof heat islands and roof heat islands as follows:			
A5.106.11.1 Hardscape alternatives. Use one or a combination of strategies 1 through 2 for 50 percent of			
site hardscape or put 50 percent of parking underground.		_	
 Use light colored materials with an initial solar reflectance value of at least 30 as determined in accordance with ASTM Standards E1918 or C1549. 			
2. Use open-grid pavement system or pervious or permeable pavement system.			_
A5.106.11.2 Cool roof for reduction of heat island effect. Use roofing materials having a minimum aged			0
solar reflectance, thermal emittance complying with Sections A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged or Solar Reflectance Index (SRI)3 equal to or greater than the values shown in:			
Table A5.106.11.2.2 – Tier 1 or		Œ	
Table A5.106.11.2.3 – Tier 2			🖾
Exceptions: 1. Roof constructions that have a thermal mass over the roof membrane, including areas of vegetated			
(green) roofs, weighing at least 25 lb/sf.			
2. Roof area covered by building integrated solar photovoltaic and building integrated solar thermal panels.			
A5.106.11.2.1 Solar reflectance. Roofing materials shall have a minimum aged solar reflectance equal to or greater than the values specified in Table A5,106.11.2.2 for Tier 1 and Table A5.106.11.2.3 for Tier 2.			
If Cool Roof Rating Council (CRRC) testing for aged reflectance is not available for any roofing			
products, the aged value shall be determined using the CRRC certified initial value using the equation paged = $[0.2 + \beta]$ [pinitial - 0.2], where pinitial = the initial solar reflectance and soiling resistance, β ,			
listed by product type in Table A5,106.11.2.1,			
Solar reflectance may also be certified by other supervisory entities approved by the Energy Commission			
pursuant to Title 24, Part 1, California Administrative Code. A5.106.11.2.2 Thermal emittance. Roofing materials shall have a CRRC initial or aged thermal			
emittance as determined in accordance with ASTM E 408 or C 1371 equal to or greater than those			
specified in Table A5.106.11.2.2 for Tier 1 and Table A5.106.11.2.3 for Tier 2.			
Thermal emittance may also be certified by other supervisory entities approved by the Energy Commission pursuant to Title 24, Part 1, California Administrative Code.			
A5.106.11.2.3 Solar reflectance index alternative, Solar Reflectance Index (SRI) equal to or greater			
than the values specified in Table A5.106.11.2.2 for Tier 1 and Table A5.106.11.2.3 for Tier 2 may be used as an alternative to compliance with the aged solar reflectance values and thermal emittance.			
SRI values used to comply with this section shall be calculated using the Solar Reflectance Index (SRI)			
Calculation Worksheet (SRI-WS) developed by the California Energy Commission or in compliance with			
ASTM E 1980-01 as specified in the California Energy Code, Section 118(i)3, Solar reflectance values used in the SRI-WS shall be based on the aged reflectance value of the roofing product or the equation in			
section A5.106.11.2.1 if the CRRC certified aged solar reflectance are not available. CertifiedThermal			
emittance used in the SRI-WS may be either the initial value or the aged value listed by the CRRC. Solar reflectance and thermal emittance may also be certified by other supervisory entities approved by the			
Commission pursuant to Title 24, Part 1, California Administrative Code.			
See Note;			
A5.106.11.3 Verification of compliance. If no documentation is available, an inspection shall be conducted to ensure roofing materials meet cool roof aged solar reflectance and thermal emittance or SRI values.			
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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
5.201.1 Scope. Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. ³	区	\mathbf{X}^2	X ²
A5.203.1 Energy efficiency. Nonresidential, high-rise residential and hotel/motel buildings that include lighting and/or mechanical systems shall comply with Sections A5.203.1.1 and either A5.203.1.2.1 or A5.203.1.2.2. Newly constructed buildings, as well as additions and alterations, are included in the scope of these sections. Buildings permitted without lighting or mechanical systems shall comply with Section A5.203.1.1 but are not required to comply with Sections A5.203.1.1.2 or A5.203.1.2.			
A5.203.1.1 Tier 1 and Tier 2 prerequisites. Each of the following efficiency measures is required for all applicable components of the building project		\boxtimes^2	X 2
A5.203.1.1.1 Outdoor lighting. Newly installed outdoor lighting power is no greater than 90 percent of the Title 24, Part 6 calculated value of allowed outdoor lighting power.		X] ²	\boxtimes^2
A5.203.1.1.2 Service water heating in restaurants. Newly constructed restaurants 8,000 square feet or greater and with service water heaters rated 75,000 Btu/h or greater installed a solar water-heating system with a minimum solar savings fraction of 0.15. See exceptions 1 and 2.		⊠ 2	\mathbf{X}^2
 A5.203.1.2 Performance standard. Comply with one of the advanced efficiency levels indicated below. A5.203.1.2.1 Tier 1. Buildings complying with the first level of advanced energy efficiency shall have an Energy Budget that is no greater than indicated below, depending on the type of energy systems included in the building project. If the newly con-structed building, addition or alteration does not include indoor lighting or mechanical systems, then no additional perfor- mance requirements above Title 24, Part 6 are required. 1. For building projects that include indoor lighting or mechanical systems, but not both: No greater than 95 percent of the Title 24, Part 6, Energy Budget for the Standard Design Building as calculated by compliance software certified by the Energy Commission. 2. For building projects that include indoor lighting and mechanical systems: No greater than 90 percent of the Title 24, Part 6 Energy Budget for the Standard Design Building as calculated by compliance software certified by the Energy Commission. A5.203.1.2.2 Tier 2. Buildings complying with the second level of advanced energy efficiency shall have an Energy Budget that is no greater than indicated below, depending on the type of energy systems included in the building project. If the newly constructed building, addition or alteration does not include indoor lighting or mechanical systems, then no additional perfor-mance requirements above Title 24, Part 6 are required. 1. For building projects that include indoor lighting or mechanical systems, but not both: No greater than 90 percent of the Title 24, Part 6, Energy Budget for the Standard Design Building as calculated by compliance 		⊠ ² .	\mathbf{X}^2
software certified by the Energy Commission. 2. For building projects that include indoor lighting and mechanical systems: No greater than 85 percent of the Title 24, Part 6, Energy Budget for the Standard Design Building as calculated by compliance software certified by the Energy Commission. Note: For Energy Budget calculations, high-rise residential and hotel/motel buildings are considered nonresidential buildings.			
A5.211.1 On-site renewable energy. Use on-site renewable energy for at least 1 percent of the electrical service overcurrent protection device rating calculated in accordance with the 2016 California Electrical Code or IKW, whichever is greater, in addition to the electrical demand required to meet 1 percent of natural gas and propane use calculated in accordance with the 2016 California Plumbing Code.			
A5.211.1.1 Documentation. Calculate renewable on-site system to meet the requirements of Section A5.211.1. Factor in net-metering, if offered by local utility, on an annual basis. A5.211.3 Green power. Participate in the local utility's renewable energy portfolio program that provides a minimum of 50-percent electrical power from renewable sources. Maintain documentation through utility billings.			
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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
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A5.212.1 Elevators and escalators. In buildings with more than one elevator or two escalators, provide			
systems and controls to reduce the energy demand of elevators and escalators as follows. Document systems operation and controls in the project specifications and commissioning plan.			
A5.212.1.1 Elevators, Traction elevators shall have a regenerative drive system that feeds electrical power			
back into the building grid when the elevator is in motion.			
A5.212.1.1.1 Car lights and fan. A parked elevator shall turn off its car lights and fan automatically until the elevator is called for use.			
A5.212.1.2 Escalators. An escalator shall have a variable voltage variable frequency (VVVF) motor drive			
system that is fully regenerative when the escalator is in motion.			
A5.212.1.4 Controls. Controls that reduce energy demand shall meet requirements of CCR, Title 8, Chapter 4, Subchapter 6 and shall not interrupt emergency operations for elevators required in CCR, Title 24, Part 2,			
California Building Code.			
A5.213.1 Steel framing, Design for and employ techniques to avoid thermal bridging.		0	
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5.303.1 Meters. Separate meters shall be installed for the uses described in Sections 5.303.1.1 and 5.303,1.2,			
5,303.1.1 New buildings or additions in excess of 50,000 square feet. Separate submeters shall be installed as follows:			
1. For each individual leased, rented or other tenant space within the building projected to consume more	X		
than 100 gal/day, including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.			
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the			
following subsystems:			
a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s) b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s)			
c. Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW)			
5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within	X		
a new building or an addition that is projected to consume more than 1,000 gal/day (3800 L/day).			
A5.303.2.3.1 Tier 1 – 12-percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 12 percent shall be provided. By either the			
prescriptive or performance method,			_
A5.303.2.3.2 Tier 2 – 20-percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 20 percent shall be provided. (Calculate			⋉
savings by Water Use Worksheets)			
A5.303.2.3.3 25-percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 25 percent shall be provided.			⊠
(Calculate savings by Water Use Worksheets)			
A5.303.2.3.4 Nonpotable water systems for indoor use. Utilizing nonpotable water systems (such as	·	-	
captured rainwater, treated graywater, and recycled water) intended to supply water closets, urinals, and other allowed uses, may be used in the calculations demonstrating the 12-, 20- or 25-percent reduction.			
The nonpotable water systems shall comply with the current edition of the California Plumbing Code.			
5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and	☒		
fittings (faucets and showerheads) shall comply with the following: 5.303.3.1 Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per	×		
flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense			
Specification for Tank-Type Toilets,			
Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.			
5,303.3.2 Urinals.			
5,303,3,2,1 Wall-mounted urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.	区		
5.303.3.2.2 Floor-mounted urinals. The effective flush volume of floor-mounted urinals shall not exceed			
0.5 gallons per flush.	. –		
5.303.3.3 Showerheads, 5.303.3.3 L Single phowerhead. Showerheads shall have a maximum flow rate of not more than 2.0	区		
5.303.3.3.1 Single showerhead, Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.			
5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one	図		
showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one			
shower outlet to be in operation at a time.			
Note: A hand-held shower shall be considered a showerhead.		I	1

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	APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
	A5.303.3 Appliances and fixture commercial application. Appliances and fixtures shall meet the following: 1. Clothes washers shall have a maximum Water Factor (WF) that will reduce the use of water by 10 percent below the California Energy Commissions' WF standards for commercial clothes washers located in Title 20 of the California Code of Regulations.			
	2. Dishwashers shall meet the criteria in Section A5.303.3(2)(a) and (b). 3. Ice makers shall be air cooled.			
	4. Food steamers shall be connectionless or boilerless. and shall consume no more than 2 gallons of water per pan per hour, including condensate water, for batch type steamers, and no more than 5 gallons of water per pan per hour, including condensate water, for cook to order steamers.		<u> </u>	
11	 5. The use and installation of water softeners that discharge to the community sewer system may be limited or prohibited by local agencies if certain conditions are met. 6. Combination ovens shall use a maximum of 1.5 gallons of water per hour per pan, including condensate 			
•	water. 7. Commercial pre-rinse spray valves manufactured on or after January 1, 2006 shall function at equal to or			
	less than 1.6 gpm (0.10 L/s) at 60 psi (414 kPa) and a. Be capable of cleaning 60 plates in an average time of not more than 30 seconds per plate b. Be equipped with an integral automatic shutoff			
	c. Operate at static pressure of at least 30 psi (207 kPa) when designed for a flow rate of 1.3 gpm (0.08 L/s) or less			
	 Food waste pulping systems shall use no more than 2 gpm of potable water. Note: potable water excludes on-site graywater use, such as dishwasher discharge water. 			
	A5.303.4 Water conserving plumbing fixtures and fittings A5.303.4.1 Nonwater supplied urinals.			
	Nonwater supplied urinals are installed in accordance with the California Plumbing Code. Where approved, Hybrid urinals, as defined in Chapter 2, shall be considered waterless urinals.		:	
11	5.303.3.4 Faucets and fountains 5.303.3.4.1 Nonresidential lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more			
	than 0.5 gallons per minute at 60 psi, 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons			
	per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.			
	5.303.3.4.3 Wash fountains, Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].			
	 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 			
	5.303.4 Commercial kitchen equipment.			
11	5,303.4.1 Food waste disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water,	X		
	Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation. 5.303.5 Areas of additions or alteration. For those occupancies within the authority of the California Building		·	
11	Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alterations to the building.	X		-
	A5.303.5 Dual plumbing. New buildings and facilities shall be dual plumbed for potable and recycled water systems for toilet flushing when recycled water is available as determined by the enforcement authority. 5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in			
П	accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> and in Chapter 6 of this code.	As applicable ⊠		
	5.304.1 Scope. The provisions of Section 5.304 Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7. Division 2, Title 23, <i>California Code of Regulations</i> , ³	×		
	A5.304.2 Outdoor water use. For new water service not subject to the provisions of <i>Water Code</i> Section 535, separate meters or submeters shall be installed for indoor and outdoor water use for landscaped areas of at least 500 square feet but not more than 1,000 square feet.			
	5.304.2 Outdoor water use in landscape areas equal to or greater than 500 square feet. When water is used for outdoor irrigation for new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review, one of the following shall apply:	X		-
	1. A local water efficient landscape ordinance that is, based on evidence in the record, at least as effective in conserving water as the updated model ordinance adopted by the Department of Water Resources (DWR) per Government Code Section 65595 (c). 2. The California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO)			
l	commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations.	_		

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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
5.304.3 Outdoor water use in rehabilitated landscape projects equal to or greater than 2,500 square feet. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review shall comply with Section 5.304.2 , Item 1 or 2. ³	X		
5.304.4 Outdoor water use in landscape areas of 2,500 square feet or less. Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of MWELO or conform to the prescriptive compliance measures contained in MWELO's Appendix D. ³	X		
5.304.5 Graywater or rainwater use in landscape areas. For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5).3	X		_
A5.304.6 Restoration of areas disturbed by construction. Restore all areas disturbed during construction by planting with local native and/or noninvasive vegetation.	-		
A5,304.7 Previously developed sites. On previously developed or graded sites, restore or protect at least 50 percent of the site area with native and/or noninvasive vegetation.			
A5.304.8 Graywater irrigation system. Install graywater collection system for onsite subsurface irrigation using graywater collected from bathtubs, showers, bathroom wash basins and laundry water. See <i>California Plumbing Code</i> .			
A5.305.1 Nonpotable water systems. Nonpotable water systems for indoor and outdoor use shall comply with the current edition of the <i>California Plumbing Code</i> .	-		
California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) shall use recycled water.			
A5.404.1 Wood framing. Employ advanced wood framing techniques or OVE, as permitted by the enforcing agency. See sections A5.404.1.1 and a5.404.1.2 for additional requirements.		П	
			<u> </u>
A5.405.1 Regional materials. Select building materials or products for permanent installation on the project that have been harvested or manufactured in California or within 500 miles of the project site, meeting the criteria listed in Section A5.405.1.			
A5.405.2 Bio-based materials. Select bio-based building materials per Section A5.405.2.1 or A5.405.2.2. A5.405.2.1 Certified wood products. Certified wood is an important component of green building strategies and the California Building Standards Commission will continue to develop a standard through the next code			_
cycle, A5.405.2.2 Rapidly renewable materials. Use materials made from plants harvested within a ten-year cycle for at least 2.5 percent of total materials value, based on estimated cost.		П	
A5.405.3 Reused materials. Use salvaged, refurbished, refinished or reused materials for at least 5 percent of the total value, based on estimated cost of materials on the project.			
A5.405.4 Recycled content. Use materials, equivalent in performance to virgin materials, with a total (combined) recycled content value (RCV) of: Tier 1. The RCV shall not be less than 10 percent of the total material cost of the project or use two products which meet the minimum recycled content levels in Table A5.405.4 for at least 75%, by cost, of all products		×	
in that category in the project Tier 2. The RCV shall not be less than 15 percent of the total material cost of the project or use three products which meet the minimum recycled content levels in Table A5.405.4 for at least 75%, by cost, of all products in that category in the project.			区
Note: Use the equations in the subsections for calculating total materials cost, recycled content, RCV of materials and assemblies, and total RCV.			

APPLICATION CHECKLIST FOR BSC A5.405.5 Cement and concrete. Use cement and concrete made with recycled products and complying with the			ITARY ¹
A5.405.5 Cement and concrete. Use cement and concrete made with recycled products and complying with the	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
Lett 1		_	
following sections;			
A5.405.5.1 Cement. Cement shall comply with one of the following standards: 1. Portland cement shall meet ASTM C150.		_	_
2. Blended hydraulic cement shall meet ASTM C595.		0	
3. Other Hydraulic Cements shall meet ASTM C1157.			
A5.405.5.2 Concrete. Unless otherwise directed by the Engineer of Record, use concrete manufactured with			
cementitious materials in accordance with Sections A5.405.5.2.1 and A5.405.5.2.1.1, as approved by the			
enforcing agency.			[
A5.405.5.2.1 Supplementary cementitious materials (SCMs). Use concrete made with one or more of the SCMs listed in Section A5.405.5.2.1.			
A5.405.5.2.1.1 Mix design equation. Use any combination of one or more SCMs, satisfying Equation A4.5-14.			
Exception: Minimums in mix designs approved by the Engineer of Record may be lower where high early strength is needed.			
A5.405.5.3 Additional means of compliance. Any of the following measures shall be permitted to be employed for the production of cement or concrete, depending on their availability and suitability, in conjunction with Section A5.405.5.2.			
A5.405.5.3.1 Cement. The following measures may be used in the manufacture of cement.			
A5.405.5.3.1.1 Alternative fuels. Where permitted by state or local air quality standards,			🗅
A5.405.5.3.1.2 Alternative power. Alternate electric power generated at the cement plant and/or green power purchased from the utility meeting the requirements of Section A5.211.			
A5.405.5.3.2 Concrete. The following measures may be used in the manufacture of concrete,			
A5.405.5.3.2.1 Alternative energy. Renewable or alternative energy meeting the requirements of Section			🗅
A5.211.			
A5.405.5.3.2.2 Recycled aggregates. Concrete made with one or more of the materials listed in Section A5.405.5.3.2.2.			
A5.405.5.3.2.3 Mixing water. Water recycled by the local water purveyor or water reclaimed from manufacturing processes and conforming to ASTM C1602.			
A5.405.5.3.2.4 High strength concrete. Concrete elements designed to reduce their total size compared to standard 3,000 psi concrete, as approved by the Engineer of Record.			
the control of the co			
A5.406,1.1 Service life. Select materials for longevity and minimal deterioration under conditions of use.			
A5,406.1.2 Reduced maintenance. Select materials that require little, if any, finishing.			
A5.406.1.3 Recyclability. Select materials that can be re-used or recycled at the end of their service life.			0
5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code, Section 1403.2 and California Energy Code, Section 150, manufacturer's installation instructions or local ordinance, whichever is more stringent. ³	X		
5.407.2 Moisture control. Employ moisture control measures by the following methods;		-	
5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent irrigation spray on	区		
structures.			
5.407.2.2 Entries and openings. Design exterior entries and openings to prevent water intrusion into buildings as follows.	\boxtimes		
5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:			
openings plus at least one of the following: 1. An installed awning at least 4 feet in depth.			
2. The door is protected by a roof overhang at least 4 feet in depth,		j	
3. The door is recessed at least 4 feet.			İ
4. Other methods which provide equivalent protection,			
5.407,2.2.2 Flashing. Install flashings integrated with a drainage plane.	X		

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APPLICATION CHECKLIST FOR BSC	MANDATORY	Tier 1	Tier 2
		· -	
5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local	or	:	
construction and demolition waste management ordinance, whichever is more stringent,	OI		
5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction	×		
and demolition waste management ordinance that is more stringent, submit a construction waste management			•
plan that complies with Items 1 through 4 of this section,			
5.408.1.2 Waste management company. Utilize a waste management company that can provide verifiable	X		
documentation that the percentage of construction waste material diverted from the landfill complies with			
this section,			
Exceptions to Sections 5.408.1.1 and 5.408.1.2: 1. Excayated soil and land-clearing debris			
2. Alternate waste reduction methods developed by working with local agencies if diversion			
or recycle facilities capable of compliance with this item do not exist.			
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities			
and markets			
5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does	X.		
not exceed two pounds per square foot of building area may be deemed to meet the 50 percent minimum			
requirement as approved by the enforcing agency.			
5.408.1.4 Documentation. Provide documentation of the waste management plan that meets the requirements	(X)		
listed in Sections 5.408.1.1 through 5.408.1.3, and the plan is accessible to the enforcement authority.			
5.408.2 Universal Waste. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that			
Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as			
other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills.			
A list of prohibited Universal Waste materials shall be included in the construction documents.			
Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/			
OEARA_REGS_UWR_FinalText.pdf	_		
5.408.3 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation	\boxtimes		
and soils resulting primarily from land clearing shall be reused or recycled. Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.			
A5.408.3.1 Enhanced construction waste reduction—Tier 1. Divert to recycle or salvage at least 65% of nonhazardous construction and demolition waste generated at the site. Any mixed recyclables that are sent to		X	
mixed-waste recycling facilities shall include a qualified third party verified facility average diversion rate.	_		
Verification of diversion rates shall meet minimum certification eligibility guidelines, acceptable to the local			
enforcing agency.			
A5.408.3.1.1 Enhanced construction waste reduction—Tier 2. Divert to recycle or salvage at least 80%			区
of nonhazardous construction waste generated at the site,			_
A5.408.3.1.2 Verification of compliance. A copy of the completed waste management report or		×	×
documentation of certification of the waste management company utilized shall be provided. Exceptions:			
1. Excavated soil and land-clearing debris			
Alternate waste reduction methods developed by working with local agencies if diversion or			
recycle facilities capable of compliance with this item do not exist			
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling			
facilities and markets.			
A5.409.1 General. Life cycle assessment shall be ISO 14044 compliant. The service life of the building and			
materials assemblies shall not be less than 60 years.			
A5,409.2 Whole building life cycle assessment. Conduct a whole building life assessment, including operating			
energy, showing that the building project achieves at least a 10-percent improvement for at least three of the impacts		ŀ	
listed in Section A5.409.2.2, one of which shall be climate change, compared to a reference building.		_	_
A5.409.3 Materials and system assemblies. If whole building analysis of the project is not elected, select a		-	
minimum of 50% of materials or assemblies based on life cycle assessment of at least three for the impacts listed in Section A5.409.2.2, one of which shall be climate change.			
A5.409.4 Substitution for prescriptive standards. Performance of a life cycle assessment completed in			
accordance with Section A5.409.2 may be substituted for other prescriptive provisions of Division A5.4, including			
those made mandatory through local adoption of Tier 1 or Tier 2 in Division A5.6.		Ι ,	
A5.409.5 Verification of compliance. Documentation of compliance shall be provided as follows:			
1. The assessment is performed in accordance with ISO 14044.			
2. The project meets the requirements of other parts of Title 24.			
3. A copy of the analysis shall be made available to the enforcement authority.			
4. A copy of the analysis and any maintenance or training recommendations shall be included in the			
operation and maintenance manual.			ļ
See notes for available tools,			

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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
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5.410.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified or the depositing, storage and collection of nonhazardous materials including organic waste for recycling. ³ Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits,	X		
resulting in an increase of 30 percent or more in floor area, shall provide recyling areas on site. Exception: Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.	۵		
410.2 Commissioning. [N] For new buildings 10,000 square feet and over, building commissioning for all aliding systems covered by Title 24, Part 6, process systems and renewable energy systems shall be included in the design and construction processes of the building project. All occupancies other than I-occupancies and L-occupancies shall comply with the California Energy Code in Particular Energy Code Section 120.8. For I-occupancies which are not regulated by OSHPD of Tor I-occupancies and L-occupancies which are not regulated by the California Energy Code Section 100.0 cope; all requirements in sections 5.410.2 through 5.410.2.6 shall apply. Tormissioning requirements shall include items listed in Section 5.410.2.	図		
Exceptions: 1. Unconditioned warehouses of any size			
 Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 			
4. Open parking garages of any size, or open parking garage areas of any size, within a structure. 5.410.2.1 Owner's Project Requirements (OPR). [N] Documented before the design phase of the project begins the OPR shall include items listed in Section 5.410.2.1.	X		
5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project to cover the systems listed in Section 5.410.2.2.	X	-	
5.410.2.3. Commissioning plan. [N] A commissioning plan describing how the project will be commissioned shall include items listed in Section 5.410.2.3.	区 .		
5.410.2.4 [N] Functional performance testing shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications.	X		
5.410.2.5 Documentation and training, [N] A Systems manual and systems operations training are required. 5.410.2.5.1 Systems manual, [N] The systems manual shall be delivered to the building owner or representative and facilities operator and shall include the items listed in Section 5.410.2,5,1,	図		
5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and shall include items listed in Section 5.410.2.5.2.	X		
5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.	X		
5.410.4 Testing and adjusting. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet. Applies to new systems serving additions or alterations.	X	· · · · · · · · · · · · · · · · · · ·	
5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems, Systems to be included for testing and adjusting shall include, as applicable to the project, the systems listed in Section 5.410.4.2.	X		
5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with applicable standards on each system as determined by the enforcing agency.			
5.410.4.3.1 HVAC balancing. Before a new space-conditioning system serving a building or space is operated for normal use, balance in accordance with the procedures defined by national standards listed in Section 5.410.4.3.1 or as approved by the enforcing agency.	X		
5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.	X		
5.410.4.5 Operation and maintenance manual. Provide the building owner with detailed operating and naintenance instructions and copies of guaranties/warranties for each system prior to final inspection. 5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required	X		
by the enforcing agency.	لکا		
503.1 Fireplaces. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a sealed condition and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7,	X As applicable	.	<u> </u>
ection 150. 5.503.1.1 Woodstoves. Woodstoves shall comply with US EPA New Source Performance Standards (NSPS)	As applicable ☑		
emission limits, where applicable, and shall have a permanent label indicating they are certified to meet the emission limits.			

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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2
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A5.504.1 Indoor air quality (IAQ) during construction, Maintain IAQ as provided in Sections A5.504.1.1			
and A5.504.1.2.		:	
A5.504.1.1 Temporary ventilation. Provide temporary ventilation during construction in accordance with			
Section 121 of the California Energy Code, CCR, Title 24, Part 6 and Chapter 4 of CCR, Title 8 and as listed in Items 1 and 2 in Section A5.504.1.1.			
A5.504.1.2 Additional IAQ measures, Employ additional measures as listed in Items 1 through 5 in Section			
A5.504.1.2.		_	
5,504.1 Temporary ventilation. If the HVAC system is used during construction, use return air filters with a	\blacksquare		
MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, Applies to additions or alterations,			
A5.504.2 IAQ postconstruction. Flush out the building per Section A5,504.2 prior to occupancy or if the			
building is occupied.			ш
A5.504,2,1 IAO Testing. A testing alternative may be employed after all interior finishes have been			
installed, using testing protocols recognized by the United State Environmental Protection Agency (U.S.			
EPA) and in accordance with Section A5.504.2.1.2. Retest as required in Section A5.504.2.1.3. A5.504.2.1.1 Maximum levels of contaminants. Allowable levels of contaminant concentrations			
measured by testing shall not exceed the following:			
1. Carbon Monoxide (CO): 9 parts per million, not to exceed outdoor levels by 2 parts per million;		As applicable	As applicab
2. Formaldehyde: 27 parts per billion;		i i	
3. Particulates (PM10): 50 micrograms per cubic meter;			
4. 4-Phenylcyclohexene (4-PCH): 6.5 micrograms per cubic meter; and 5. Total Volatile Organic Compounds (TVOC): 300 micrograms per cubic meter.			
A5.504.2.1,2 Test protocols. Testing of indoor air quality should include the elements listed in Items 1			
through 4.		_	
A5.504.2.1.3 Noncomplying building areas. For each sampling area of the building exceeding the			
maximum concentrations specified in Section A5.504.2.1.1, flush out with outside air and retest samples taken from the same area. Repeat the procedures until testing demonstrates compliance.			
5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the			
time of rough installation and during storage on the construction site and until final startup of the heating,			
cooling and ventilating equipment, all duct and other related air distribution component openings shall be	X		
covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.			
5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through			
5.504.4.6.			
5.504.4.1 Adhesives, sealants, caulks. Adhesives and sealants used on the project shall meet the			
requirements of the following standards,	_		
Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where	X		
applicable or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2.			
2. Aerosol adhesives and smaller unit sizes of adhesives and sealant or caulking compounds (in units of	X		
product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use			
of certain toxic compounds, of <i>California Code of Regulations</i> , Title 17, commencing with Section 94507.			
5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with Table 5.504.4.3 unless	\boxtimes		
more stringent local limits apply.	150		
5.504.4.3.1 Aerosol paints and coatings. Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of	X		1
certain toxic compounds and ozone depleting substances (CCR, Title 17, Section 94520, et seq.).			
5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of	\boxtimes		
the enforcing agency.	प्य		
5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in Section 5.504.4.4.	区		
5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the	×		
requirements of the Carpet and Rug Institute's Green Label program.	_		
5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.	×		
5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for	X		
formaldehyde as specified in Table 5.504.4.5.		1	
A5.504.4.5.1 No added formaldehyde, Tier 1. Use composite wood products approved by the ARB as			×
no-added formaldehyde (NAF) based resins or ultra-low emitting formaldehyde (ÛLEF) resins.	ren	_	_
5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:	⊠ As applicable		
1. Product certifications and specifications.	As applicable		
1. I foduce cerufications and specifications.	X	1	
2. Chain of custody certifications.		t	1
Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title	X	1	ı
Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).	_		
Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title	X		

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APPLICATION CHECKLIST FOR BSC	MANDATORY	CALGreen Tier 1	CALGreen Tier 2	
5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, install resilient	IX IX	Heri	TICI 2	
flooring which meets one of the following:				
1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;				
 Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 				
1.1, February 2010;				
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria				
Interpretation for EQ 7.0 and 7.1 (formerly EQ. 2.2) dated July 2012 and listed in the CHPS High				
Performance Product Database; or				
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools				
Program).	[W]			
A5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits,	X			
A5.504.4.7 Resilient flooring systems, Tier 1. For 90 percent of floor area receiving resilient flooring,		N X		
installed resilient flooring shall meet at least one of the following:		15.5		
1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;				
2. Compliant with the VOC-emission limits and testing requirements specified in the California				
Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version				
1.1, February 2010;				
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and 7.1 (formerly EQ. 2.2) dated July 2012 and listed in the CHPS High				
Performance Product Database; or				
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools				
Program).				
A5.504.4.7.1 Resilient flooring systems, Tier 2. For 100 percent of floor area to scheduled to receive				
resilient flooring, install resilient flooring shall meet at least one of the following:				
 Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 				
2. Compliant with the VOC-emission limits and testing requirements specified in the California				
Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers,				
Version 1.1, February 2010;				
 Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and 7.1 (formerly EQ. 2.2) dated July 2012 and listed in the CHPS High 				
Performance Product Database; or				
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools				
Program).				
A5.504.4.7.2 Verification of compliance. Documentation shall be provided verifying that resilient		X	×	
flooring materials meet the pollutant emission limits.		_		
A5.504.4.8 Thermal insulation, Tier 1, Comply with the standards listed in Items 1 through 3.			_	
A5.504.4.8.1 Thermal insulation, Tier 2 Thermal insulation, No-added Formaldehyde. Install thermal insulation which complies with Tier 1 plus does not contain any added formaldehyde.			X	
A5.504.4.8.2 Verification of compliance. Documentation shall be provided verifying that thermal			[X]	
insulation materials meet the pollutant emission limits,				
A5,504,4.9 Acoustical ceilings and wall panels. Comply with Chapter 8 in Title 24, Part 2 and with the				
VOC- emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products				
Database.		_		
A5.504.4.9.1 Verification of compliance. Documentation shall be provided verifying that acoustical				
finish materials meet the pollutant emission limits. Note: Products compliant with CHPS criteria certified under the Greenguard Children & Schools				
program may also be used.		ļ		
A5.504.5 Hazardous particulates and chemical pollutants. Minimize and control pollutant entry into				
puildings and cross-contamination of regularly occupied areas.		-	_	
A5.504.5.1 Entryway systems. Install permanent entryway systems measuring at least six feet in the				
primary direction of travel to capture dirt and particulates at entryways directly connected to the outdoors as		ļ		
listed in Items 1 through 3 in Section A5.504.5.1.		_	_	
A5.504.5.2 Isolation of pollutant sources. In rooms where activities produce hazardous fumes or chemicals, exhaust them and isolate them from their adjacent rooms as listed in Items 1 through 3 in Section A5.504.5.2.				
exhaust them and isolate them from their adjacent rooms as used in items 1 through 3 in Section A3.304.3.2, 5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with	⊠			
air filtration media for outside and return air that provides at least a MERV of 8, MERV 8 filters shall be	<u>~</u>			
installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be				
included in the operation and maintenance manual.				
Exceptions:		1		
1. An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting				
the 2013 California Energy Code having 60,000 Btu/h or less capacity per fan coil, if the energy use of				
the air delivery system is 0.4 W/cfm or less at design air flow. 2. Existing mechanical equipment,				
2, Daioung medianda dupindin,				
5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV		1		

SECTION A5.602 NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST---continued4

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARYT	
		CALGreen Tier 1	CALGreen Tier 2
A5.504.5.3.1 Filters, Tier 1. In mechanically ventitlated buildings, provide regularly occupied areas of the building with air infiltration media for outside and return air prior to ocupancy that provides at least a MERV of 11.	MANDATORI	i iei i	Tier 2
A5.504.5.3.1.1 Filters, Tier 2. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 13.			
5.504.7 Environmental tobacco smoke (ETS) control. Prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows where outdoor areas are provided for smoking and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University or campus of the University of California, whichever are more stringent.	X		
This is the instance Richit Council Co			
5.505.1 Indoor moisture control. Buildings shall meet or exceed the provisions of <i>California Building Code</i> , CCR, Title 24, Part 2, Sections 1203 and Chapter 14.1. ³	X		
Microbio Antonimate de la companya della companya della companya de la companya della companya d		·	
5.506.1 Outside air delivery. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 of the <i>California Energy Code</i> and Chapter 4 of CCR, Title 8 or the applicable local code, whichever is more stringent. ³	Ø		
5.506.2 Carbon dioxide (CO ₂) monitoring. For buildings or additions equipped with demand control ventilation, CO ₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, CCR, Section 120(c)(4). ³	X		
in tracoments compared a grant g			
A5.507.1 Lighting and thermal comfort controls, Provide controls in the workplace as described in Sections A5.507.1.1 and A5.507.1.2.			
A5.507.1.1 Single-occupant spaces. Provide individual controls that meet energy use requirements in the California Energy Code by Sections A5.507.1.1.1 and A5.507.1.1.2.			
A5.507.1.1.1 Lighting. Provide individual task lighting and/or daylighting controls for at least 90 percent of the building occupants.			
A5.507.1.1.2 Thermal comfort. Provide individual thermal comfort controls for at least 50 percent of the building occupants by Items 1 and 2 in Section A5.507.1.1.2.			
A5.507.1.2 Multi-occupant spaces. Provide lighting and thermal comfort system controls for all shared multi-occupant spaces.		<u> </u>	
A5.507.2 Daylight. Provide daylit spaces as required for toplighting and sidelighting in the California Energy Code. In constructing a design, consider Items 1 through 4 in Section A5.507.3.			
A5.507.3 Views. Achieve direct line of sight to the outdoor environment via vision glazing between 2'6" and 7'6" above finish floor for building occupants in 90 percent of all regularly occupied areas.			
A5.507.3.1 Interior office spaces. Entire areas of interior office spaces may be included in the calculation if at least 75 percent of each area has direct line of sight to perimeter vision glazing.			
A5.507.3.2 Multi-occupant spaces. Include in the calculation the square footage with direct line of sight to perimeter vision glazing.			
5.507.4 Acoustical control. Employ building assemblies and components with STC values determined in accordance with ASTM E90 and ASTM E413 or OITC determined in accordance with ASTM E1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.	X		
5.507.4.1 Exterior noise transmission, prescriptive method. Wall and floor-ceiling assemblies exposed to the noise source making up the building envelope shall have exterior wall and roof ceiling assemblies meeting a composite STC rating of at least 50 or a composite OTTC rating of no less than 40 with exterior windows of a minimum STC of 40 or OTTC of 30 in the locations described in Items 1 and 2. Also applies to addition envelope or altered envelope.	X		
5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L _{eq} -1Hr during any hour of operation shall have exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OTTC 35), with exterior	or or		
windows of a minimum STC of 40 (or OTTC 30). Also applies to addition or alteration exterior wall.		•	
5.507.4.2 Performance method. For buildings located as defined in Sections A5.507.4.1 or A5.507.4.1.1, wall and roof-ceiling assemblies making up the building envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation. Also applies to addition envelope or altered envelope.	X		
5.507.4.2.1 Site features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the project to mitigate sound migration to the interior. Also applies to addition envelope or altered envelope.	X		
5.507.4.2.1 Documentation of compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.	区		
5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.	X		

		VOLUNTARY ¹	
APPLICATION OUTOVI INT FOR BOO		CALGreen	CALGreen
APPLICATION CHECKLIST FOR BSC	MANDATORY	Tier 1	Tier 2
5500 1 Ocean dealetter and dea			
5.508.1 Ozone depletion and global warming reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508,1.1 and 5.508.1.2.	As applicable		
5.508.1.1 CFCs. Install HVAC and refrigeration equipment that does not contain CFCs. ³	× applicable		
5.508.1.2 Halons. Install fire suppression equipment that does not contain Halons.	X		
A5.508.1.3 Hydrochlorofluorocarbons (HCFCs). Install HVAC and refrigeration equipment that does not	_		
contain HCFCs,			_
A5.508.1.4 Hydrofluorocarbons (HFCs). Install HVAC complying with either of the following:		_	
 Install HVAC, refrigeration and fire suppression equipment that do not contain HFCs or that do not contain HFCs with a global warming potential greater than 150. 			
2. Install HVAC and refrigeration equipment that limit the use of HFC refrigerant through the use of a			
secondary heat transfer fluid with a global warming potential no greater than 1.			
5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities. Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a	[호] As applicable		
GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO ₂), and potentially other refrigerants.			
5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than ¹ / ₄ inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below. 5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.			
5.508.2.1.2 Copper pipe. Copper tubing with an OD less than ¹ / ₄ inch may be used in systems with a refrigerant charge of 5 pounds or less, 5.508.2.1.2.1 Anchorage. ¹ / ₄ inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.			
5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.			
Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.			
5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.			
 5.508.2.2 Valves. Valves and fittings shall comply with the California Mechanical Code and as follows. 5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve. 			
5.508,2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.			
5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.			
5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.			
5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. 5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.			
Exception: Valves with seal caps that are not removed from the valve during stem operation. 5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.			
5.508.2.3.1. Coil coating. Consideration shall be given the heat transfer efficiency of coil coating to maximize energy efficiency.			

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY ¹	
		CALGreen Tier 1	CALGreen Tier 2
5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.			
5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.			
5.508,2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.			
5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.			
5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.			
5.508,2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.			
5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes,		•	
5.508.2.6.2 Second vacuum, Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.			
5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.			

- 1. Green building measures in this table may be mandatory if adopted by a city, county, or city and county as specified in Section 101.7.
- 2. Required prerequisite for this Tier.
- 3. These measures are currently required elsewhere in statute or in regulation.
- 4. This application checklist is non-regulatory, intended only as an aid to the user and may not contain complete code language. Refer to Chapter 5 and Appendix Chapter A5 for complete code provisions.